



6AK5

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SHARP-CUTOFF PENTODE

7-PIN MINIATURE TYPE

Useful at frequencies up to 400 Mc

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. 6.3 ac or dc volts

Current. 0.175 amp

Direct Interelectrode Capacitances:

	Without External Shield	With External Shield ⁰	
Grid No.1 to plate	0.03 max.	0.02 max.	μmf
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater	4	4	μmf
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater	2.1	2.8	μmf

Characteristics, Class A₁ Amplifier:

Plate Voltage.	120	180	volts
Grid-No.2 (Screen) Voltage	120	120	volts
Cathode-Bias Resistor.	180	180	ohms
Plate Resistance (Approx.)	0.30	0.50	megohm
Transconductance	5000	5100	μmhos
Plate Current.	7.5	7.7	ma
Grid-No.2 Current.	2.5	2.4	ma
Grid-No.1 Voltage (Approx.) for plate current of 10 μamp	-8.5	-8.5	volts

Mechanical:

Mounting Position. Any

Maximum Overall Length 1-3/4"

Maximum Seated Length. 1-1/2"

Length, Base Seat to Bulb Top (Excluding tip). 1-1/8" \pm 3/32"

Maximum Diameter 3/4"

Dimensional Outline. See General Section

Bulb T-5-1/2

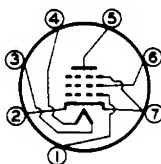
Base Small-Button Miniature 7-Pin (JETEC No.E7-1)

Basing Designation for BOTTOM VIEW 7BD

Pin 1-Grid No.1

Pin 2-Cathode,
Grid No.3,
Internal
Shield

Pin 3-Heater



Pin 4-Heater

Pin 5-Plate

Pin 6-Grid No.2

Pin 7-Same as
Pin 2

⁰ With external shield JETEC No.316 connected to cathode.

← Indicates a change.

SEPT. 1, 1955

TUBE DIVISION

DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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AMPLIFIER - Class A₁

→ Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	180 max. volts
GRID-No.2 (SCREEN) SUPPLY VOLTAGE.	180 max. volts
GRID-No.2 VOLTAGE.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
GRID-No.1 (CONTROL-GRID) VOLTAGE:	
Positive bias value.	0 max. volts
PLATE DISSIPATION.	1.7 max. watts
GRID-No.2 INPUT:	
For grid-No.2 voltages up to 90 volts. .	0.5 max. watt
For grid-No.2 voltages between 90 and 180 volts.	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section
CATHODE CURRENT.	18 max. ma
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode.	120 max. volts
Heater positive with respect to cathode.	120 max. volts

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